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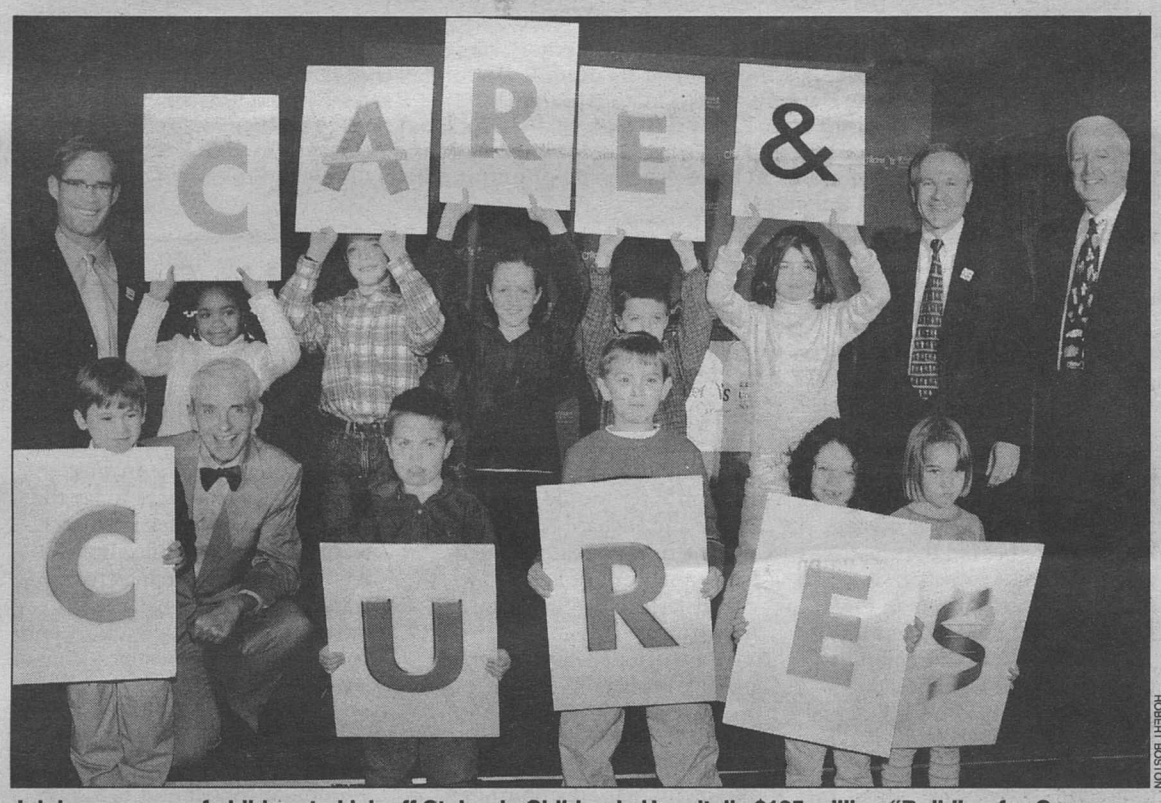


ROBERT BOSTON

Joining a group of children to kick off St. Louis Children's Hospital's $125 million "Building for Care, Searching for Cures" campaign Jan. 25 were (from left) Joe Buck of FOX Sports and a trustee of Children's Hospital; Jonathan D. Gitlin, M.D., the Helene B. Roberson Professor of Pediatrics and professor of genetics and of pathology and immunology; Lee Fetter, president of Children's Hospital; and Larry J. Shapiro, M.D., executive vice chancellor for medical affairs and dean of the School of Medicine.

Children's institute launched with goal of curing deadliest diseases

St. Louis Children's Hospital and the School of Medicine have launched The Children's Discovery Institute (CDI), a unique and bold partnership aimed at curing some of the deadliest diseases attacking our nation's children.

The collaboration will focus on accelerating cures for childhood disease in four areas: congenital heart disease, cancer, lung and respiratory disorders and musculoskeletal diseases.

"We already have the sequence of the human genome, much of which was mapped at Washington University in St. Louis," said Alan L. Schwartz, M.D., Ph.D., the Harriet B. Spoehrer Professor of Pediatrics and head of that department, and pediatrician in chief at Children's Hospital.

"The CDI is a unique plan to build a high-speed connection between this fundamental knowledge of our genetic code and the patient's bedside, so the knowledge can flow and translate directly into cures for disease. This isn't being done anywhere else."

Children's Hospital publicly launched a $125 million fund-raising campaign, "Building for Care, Searching for Cures," Jan. 25. The goals of the campaign, one of the largest in the city's history, include launching the CDI and expanding Children's Hospital's facilities to accommodate this vision. The campaign is part of a $355 million long-term endeavor.

To date, private donors have given more than $100 million toward the campaign, led by a $20 million gift from the McDonnell Family Foundation. The remainder of the total cost will come from BJC HealthCare and Children's Hospital reserves and other funding.

"We have some of the most talented physicians and scientists in the world, and the CDI is going to enable us to attract even more," said Lee Fetter, president of Children's Hospital.

"Significant financial resources are necessary to fund these intellectual resources, new and robust technologies and facility expansion. Thanks to the tremendous outpouring of interest and support from lead givers, we are well on the way to achieving our goal."

Children's Hospital broke ground on its expansion

See **Institute**, Page 5

Supplier Diversity Initiative outreach focuses on future

By Andy Clendennen

When started in 1999, the Office of Supplier Diversity had a goal of improving relations and business opportunities with minority- and women-owned firms — construction and other.

Since the inception of the office, under the direction of Sandra Marks, the University has spent a total of $85 million with minority-owned firms and $77 million with women-owned firms.

In fiscal year 2005, the University's direct spending with minority- and women-owned firms totaled $27.9 million. Nearly three-quarters — 73 percent — was spent with pre-qualified minority- and women-owned business enterprise construction firms, and 9 percent was spent with minority preferred suppliers.

"The University continues its outreach effort to foster relationships with minority and women suppliers in both the construction and nonconstruction areas that bring value to the University and the community," Marks said. "All of our suppliers play an integral role as they assist us in bringing in new firms and supporting our community through their own supplier diversity initiatives."

In January, Chancellor Mark S. Wrighton reaffirmed the University's approach to diversity, saying in part, "We have resolved to dedicate the resources, creativity and hard work needed to become a leader in strengthening diversity and improving gender balance. This is a long-term effort with no simple or easy paths to leadership.

"But it is my hope that a look back 10 years from now will see the 2005-06 academic year as the beginning of a new era."

With that in mind, he appointed Leah Merrifield as special assistant to the chancellor for diversity initiatives. While her role encompasses many aspects of the University, she also has an eye on the Supplier Diversity Initiative.

"The Supplier Diversity Initiative continues to play an important role in Washington University's diversity and inclusion efforts," Merrifield said. "The programs and activities of the SDI will definitely assist us as the University works to further enhance the diversity of our faculty and administrative staff."

Further goals of the office — both short- and long-term — include continuing to support the diversity programs in St. Louis developed in part for the University's benefit. These include the St. Louis Business Diversity Initiative; the St. Louis Minority Business Council; the Associated General Contractor's (AGC) Stempel Plan Mentoring Program; the St. Louis Council of Construction Consumers' Diversity Committee; the AGC Construction Career Center; and the Association for Construction Career Educations and Support Services.

Additionally, the Office of Supplier Diversity will continue to:

- Build its contractor and supplier relationships with increased emphasis on diversity as a "natural" way of doing business;
- Partner with community efforts to offer formal training programs for senior management and those responsible for supplier diversity program implementation; and

See **Diversity**, Page 6

Study: Diabetes-prevention nutrition programs should be culturally sensitive

By Jessica Martin

While culturally traditional foods are a big part of African-American heritage, they also are a significant factor in the type 2 diabetes epidemic among African-American women. And while the prevalence of type 2 diabetes is associated with higher rates of obesity, diabetes nutrition-education programs have been relatively unsuccessful in attracting and retaining African-American women.

However, a new study shows that there is a way to reach members of this population and make a positive impact on their dietary behavior.

African-American women who are at high risk for type 2 diabetes can sharply lower their chances of getting the disease with diet and exercise. The study shows that to attract and retain African-American women in a diabetes-prevention nutrition program, it should be culturally sensitive.

"At the very least, (such programs) need to consider the traditional foods and recipes of the participants," said James Herbert Williams, Ph.D., the E. Desmond Lee Professor of Racial and Ethnic Diversity in the George Warren Brown School of Social Work.

"Programs for African-American women that are developed with Afrocentric values and culture in mind lead to greater program satisfaction for the participants and significant changes in eating habits."

Williams examined the "Eat Well Live Well Nutrition Program" (EWLW) in his study

See **Diabetes**, Page 6

Bringing in the new year

Senior Fei Sun plays a Chinese lute, a traditional instrument, during the Spring Festival celebrating the Chinese New Year Jan. 28 in Brown Hall. Sponsored by the Chinese Students and Scholars Association, the event attracted more than 250 people from WUSTL and other area universities. For more Chinese New Year celebration photos, see Page 5.

MARY BUTKUS

Neandertal fossils re-dated; could be considerably older

By Neil Schoenherr

Two Neandertal fossils excavated from Vindija Cave in Croatia in 1998, believed to be the last surviving Neandertals, may be 3,000-4,000 years older than originally thought.

An international team of researchers, including Erik Trinkaus, Ph.D., the Mary Tileston Hemenway Professor of Anthropology in Arts & Sciences, has re-dated the two Neandertals from Vindija Cave. The results were published in the Jan. 2-6 early edition of the journal *Proceedings of the National Academy of Sciences (PNAS)*.

Other scientists involved were Tom Higham and Christopher Bronk Ramsey of the Oxford

See **Fossils**, Page 6

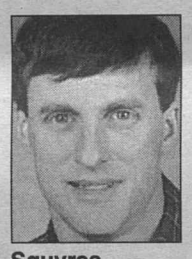
Squyres to speak on Mars rovers mission

Arvidson to give introduction at Feb. 8 event

BY MARY KASTENS

Steven Squyres, Ph.D., will present the William C. Ferguson Lecture on "Roving Mars: *Spirit*, *Opportunity* and the Exploration of the Red Planet" at 11 a.m. Feb. 8 in Graham Chapel as part of the Assembly Series.

Squyres is the principal scientific investigator for the Mars Exploration Rover (MER) Mission, which he first conceived in 1987, getting a green light from NASA a decade later.



Squyres

He helped design, build and test all the scientific tools on the two 400-pound, solar-powered rovers, *Spirit* and *Opportunity*. He oversees the science operations of the rovers and a team of 170 researchers at NASA's Jet Propulsion Laboratory in California.

The rovers landed on Mars two years ago and are helping astronomers determine whether there was life on the planet. *Spirit* and *Opportunity* are examining Mars' rocks and soil for minerals signaling the past presence of water.

Like his former professor, the late astronomer Carl Sagan, Squyres has a deep passion for space exploration, and he hopes the Mars mission will rekindle the public's interest as it shares in the exploration of the surface of another world.

He is the Goldwin Smith Professor of Astronomy at Cornell University. He earned a doctorate from Cornell in 1982.

He specializes in planetary sciences and has a particular interest in the tectonics of Venus, the history of water on Mars and the geophysics of the icy satellites of the outer planets.

The Assembly Series event will actually feature two of the top MER scientists, as WUSTL's own Raymond E. Arvidson, Ph.D., the deputy principal investigator of the mission, will introduce Squyres.

Arvidson is the James S. McDonnell Distinguished University Professor and chair of the Department of Earth and Planetary Sciences in Arts & Sciences. He directs the department's Remote Sensing Laboratory, which is involved in many aspects of NASA's planetary exploratory programs, including developing science objectives, plans for missions, data analysis and archiving.

Assembly Series lectures are free and open to the public.

For more information, call 935-4620 or go online to *assemblyseries.wustl.edu*.

MARY BUTKUS

Wilson professorship John G. Baugh, Ph.D. (center), director of African and African American Studies in Arts & Sciences, is congratulated by John F. McDonnell (right), vice chairman of the Board of Trustees, during Baugh's recent installation as the first Margaret Bush Wilson Professor in Arts & Sciences. Looking on is Edward S. Macias, Ph.D., executive vice chancellor, dean of Arts & Sciences and the Barbara and David Thomas Distinguished Professor in Arts & Sciences. Baugh also holds appointments in the departments of Anthropology, English, Education and Psychology, all in Arts & Sciences.

Sheldon exhibit highlights Sturgis' influence

University Archives items on display; runs through April 8

BY ANDY CLENDENNEN

Russell Sturgis was one of the most influential critics and art historians of his day. He was a leading force behind the creative development of American art, architecture and culture in the last quarter of the 19th century.

Now, thanks to an exhibit by the Sheldon Art Galleries, the public can see just how influential Sturgis (1836-1909) was.

Using pieces of the collection housed in University Archives, the Sheldon Art Galleries is presenting *Russell Sturgis: Critic, Historian and Collector* from Jan. 21-April 8 in the Bernoudy Gallery of Architecture.

An opening reception was Jan. 20.

University Archives' holdings exhibited include 26 vintage prints and a number of bound volumes by 19th-century architectural photographers Edouard Baldus, Charles Marville, William J. Stillman and Frank M. Good.

The exhibition also includes folio volumes from WUSTL and the Richardson Memorial Library of the Saint Louis Art Museum.

A free gallery talk will be held at 11 a.m. March 11 by David Hanlon, curator of the exhibition, photographer, photographic historian and chair of the art department at St. Louis Community College-Meramec.

Sturgis was born near Baltimore but grew up in New York, where he gained an early interest in architecture and modern design innovation in the projects of Jacob Wrey Mould, Leopold Eidlitz and Richard Morris Hunt.

He also was greatly influenced by the work of Emmanuel Viollet-le-Duc and the theories and writings of John Ruskin during this period, helping form a group known as "the American Pre-Raphaelites." They championed the use of natural forms and realism and, above all, the interdisciplinary relationship between architecture and the fine arts.

After traveling in Europe for more than two years and studying at the Academie der Bildernden Kunste in Munich, Germany, Sturgis established his own practice in New York in 1863. He rose to prominence as one of the city's most "fashionable" architects at the forefront of the High Victorian Gothic style and romantic rationalism.

His most recognized works are the four buildings he designed for Yale University: Farnam Hall (1869), Durfee Hall (1870), Battell Chapel (1876) and Lawrence Hall (1885).

Sturgis' most lasting contribution, however, was in the field of art and architectural criticism, a profession that he helped initiate in the United States in the 1860s and 1870s.

As a popular lecturer and, especially, as a prolific writer of articles in leading newspapers, periodicals and professional journals (particularly the *Architectural Record*), Sturgis sought to lay the foundation for professional architectural criticism while also directing American architecture toward the optimum balance of technology and design, utility and beauty, and progressiveness combined with tradition.

He was also the author of many books on aspects of art and architectural history, as well as an editor and contributor to many important architectural dictionaries and encyclopedias.

The Sheldon actively supports the work of St. Louis artists in all mediums and features a dedicated gallery with museum-quality exhibits by St. Louis artists, past and present.

Financial assistance for this project has been provided by the Missouri Arts Council. Support is provided by the Regional Arts Commission, the Arts and Education Council and The Heartland Arts Fund.

The Sheldon Art Galleries are located in the Emerson Galleries building, 3648 Washington Blvd. Gallery hours are noon-8 p.m. Tuesdays and Thursdays; noon-5 p.m. Wednesdays and Fridays; 10 a.m.-2 p.m. Saturdays; and one hour prior to Sheldon Concert Hall performances and during intermissions.

For more information, call 533-9900.

Campus Watch

The following incidents were reported to University Police **Jan. 25-31**. Readers with information that could assist in investigating these incidents are urged to call 935-5555. This information is provided as a public service to promote safety awareness and is available on the University Police Web site at *police.wustl.edu*.

Jan. 26

1:36 p.m. — A person reported a cell phone and a watch were stolen from a desk in McMillen Lab sometime between 9:30 a.m.-noon. Total loss is estimated at $625.

5:06 p.m. — A person reported the theft of a Microsoft Xbox video game console from a common area of a suite in Eliot House. The theft occurred between Dec. 23-Jan. 15. Total loss is estimated at $200.

Jan. 27

10:34 a.m. — A staff member reported the theft of a coat rack from a copy room (Room 116) in Prince Hall. The item had just been purchased and was stolen sometime between 10 a.m.-1 p.m. Jan. 26. Total loss is estimated at $116.

Additionally, University Police responded to two parking violations and one report each of public intoxication, drug offense and identity theft.

COURTESY PHOTO

Visiting Israel In early January, a WUSTL delegation headed by Chancellor Mark S. Wrighton visited Israel to continue the University's ongoing interest in learning more about higher education around the world. Above, trip participants (from left) Edward F. Lawlor, Ph.D., dean of the George Warren Brown School of Social Work and the William E. Gordon Professor; Barry Rosenberg, executive vice president of the St. Louis Jewish Federation; 1958 alumnus Thomas R. Green; Wrighton; St. Louis Mayor Francis G. Slay; Larry J. Shapiro, M.D., executive vice chancellor for medical affairs and dean of the School of Medicine; and Edward S. Macias, Ph.D., executive vice chancellor, dean of Arts & Sciences and the Barbara and David Thomas Distinguished Professor in Arts & Sciences, pause in the Jewish Quarter of the Old City of Jerusalem. Wrighton and others met with governmental officials and university leaders to learn more about possibilities for greater international understanding and cooperation. The University also hosted a special event for its alumni living in Israel.

Margulis to perform works of Russian composers Feb. 5

The Department of Music in Arts & Sciences will present Russian pianist Jura Margulis in a solo recital at 4 p.m. Feb. 5 in Graham Chapel.

The program will feature several virtuosic works by late 19th-century Russian composers, most notably Mili Balakirev's colorful *Islamey, Oriental Fantasy*, a piece famous for its extreme difficulty. Also included will be three preludes by pianist/composer Sergei Rachmaninoff, as well as Peter I. Tchaikovsky's *Dumka, Op. 59*.

In addition, Margulis will open the recital with three impromptus by Viennese composer Franz Schubert, followed by transcriptions for piano of three Schubert songs by the 19th century's greatest piano virtuoso, the Hungarian Franz Liszt. This set includes Liszt's paraphrase on the famed Erlkönig.

Margulis was born in St. Petersburg, Russia, and later lived in Freiburg, Germany, where he studied at its Musikhochschule with his father, Vitaly Margulis. He also studied at the prestigious Fondazione per il Pianoforte in Cadenabbia at Lake Como in Italy.

In America, he was a student of Leon Fleisher at the Peabody Conservatory in Baltimore.

His prizes include awards from the Busoni Competition in Italy and the Pro Europa prize from the European Foundation for culture.

Margulis has played with orchestras such as the Montreal Symphony Orchestra, under the direction of Charles Dutoit, and the Prague Symphony Orchestra. He has performed at the Berliner Festwochen and the Schleswig Holstein Music Festival. As a chamber musician, he appeared with the Moscow Virtuosi, the Moscow String Quartet and as a duo pianist with Martha Argerich.

He is professor of music and artist in residence at the University of Arkansas.

For more information, call 935-4841.

School of Medicine Update

Common blood-thinner drug increases risk of bone fracture

BY GWEN ERICSON

Elderly patients taking the commonly prescribed blood thinner warfarin experience an increased risk for osteoporosis-linked bone fractures, according to a study at the School of Medicine.

The results suggest physicians should carefully monitor the bone health of patients placed on the medication and that their patients should take steps to decrease the risk of osteoporosis.

Warfarin, also known by the brand name Coumadin, is often given to patients with atrial fibrillation, irregular contractions of the upper chambers of the heart. By interfering with vitamin K's role in clotting, the drug decreases formation of blood clots, which often accompany atrial fibrillation.

But because vitamin K also interacts with osteocalcin, a protein vital for bone formation, warfarin's antagonism of vitamin K has the potential to affect bone strength as well. Osteoporotic fractures occur when the bones become so weakened that minor trauma causes breakage.

"We did a retrospective study of Medicare records for about 15,000 patients hospitalized with atrial fibrillation, and we identified fractures related to osteoporosis," said lead author Brian Gage, M.D., associate professor of medicine and medical director of Barnes-Jewish Hospital's Blood Thinner Clinic. "Our analysis showed that long-term use of warfarin — longer than one year — led to a 25 percent increase in the incidence of fracture."

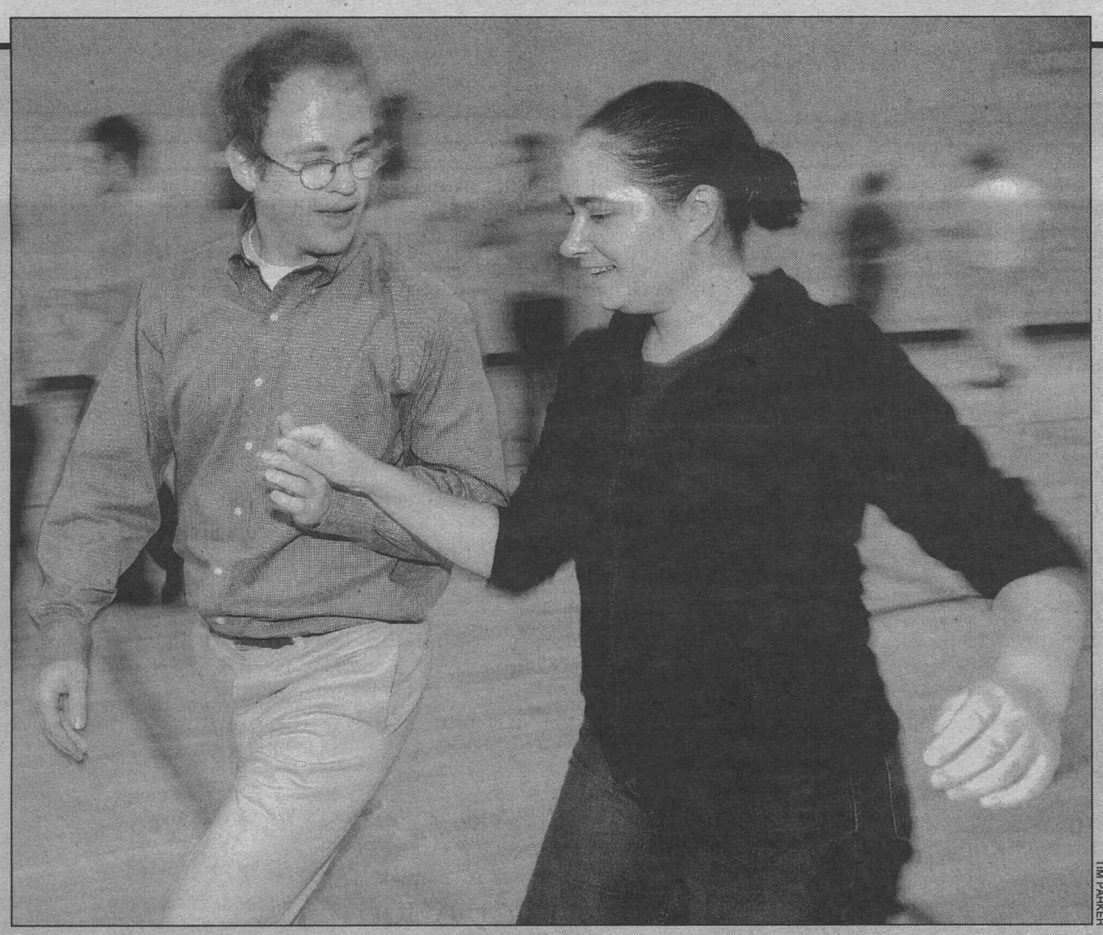
The study included about an equal number of men and women with an average age of 80. In the general population, 80 percent of those affected by osteoporosis are women, and women in this study were more likely to have an osteoporotic fracture than were men. But the women's risk of fracture did not increase by a statistically meaningful amount on long-term warfarin therapy. However, men in the study who took warfarin for more than a year had a 63 percent higher incidence of fracture than men who did not take the blood thinner.

> "We did a retrospective study of Medicare records … Our analysis showed that long-term use of warfarin — longer than one year — led to a 25 percent increase in the incidence of fracture."
>
> BRIAN GAGE

Patients taking warfarin for less than one year did not have increased fracture risk, and patients taking beta-blockers had fewer fractures than patients not taking beta-blockers.

More than half of the fractures seen in the study group were hip fractures, with the rest involving the spine and wrist. Osteoporotic fractures often result in lost mobility and death in many cases. In the study group, 39 percent of patients with hip fractures died within 30 days.

"The results of the study have important implications for treatment of atrial fibrillation," Gage said. "To maintain bone strength, elderly patients taking warfarin should exercise regularly and have adequate intakes of calcium and vitamin D. Those who are prone to falling could use walking aids and proper footwear. Smokers should quit, which will decrease their risk of osteoporosis and other diseases."



TIM PARKER

Dance fever Second-year medical student Seth Bloom and first-year student Cara Fosdick get into the swing of things as they learn dances for the School of Medicine's 10th annual Faculty/Student Med Ball, to be held March 11. The Ballroom Dance Club, which has 12-30 participants each week, is learning the waltz, fox trot and swing, having already mastered salsa and tango.

Breast cancer may be several diseases

$8.5 million study seeks best therapy for each

BY GWEN ERICSON

Physicians have come to understand that what we call breast cancer is really several — probably at least five — different diseases that need different treatments and have different outcomes.

Now researchers at the School of Medicine and collaborating institutions in the United States and Canada plan to evaluate these breast cancer subtypes and determine the likely prognosis and most effective treatment for each.

The group is headed by Matthew J. Ellis, M.D., Ph.D., the Anheuser-Busch Endowed Professor in Medical Oncology, and funded by a new $8.5 million, five-year grant from the National Cancer Institute.

Ellis

"We're working to develop a new diagnostic and treatment paradigm," said Ellis, a breast-cancer specialist with the Siteman Cancer Center. "We're analyzing the genes active in breast tumors to characterize the biological behaviors of each breast-cancer subtype. This will enable us to more effectively classify breast tumors and then to work to optimize treatment protocols based on this information."

Older methods of determining breast cancer treatment relied mainly on tumor location, size and spread. The rise of genetic analyses uncovered genetic indicators, such as overexpression of the HER2 gene in some breast cancers, that may lead to treatment with specifically targeted drugs.

But scientists recognize that cancer is a complex disease that accumulates many, perhaps thousands of genetic abnormalities. So researchers such as Ellis are using tools that can simultaneously measure the activity of many genes to look for larger patterns of gene activity associated with a particular cancer.

"In a sense, we are looking for the genetic signatures of each breast cancer subtype," Ellis said. "Previous research has shown that you can delineate categories of breast tumors based on their genetic signatures. But right now the categories are a little like rough estimates, because there is ambiguity about which genes should be considered markers for each cancer subtype."

Scientists have outlined five categories of breast tumors referred to as Luminal A and B, Normal Breast-like, HER2-positive and Basal-like, but the profile of gene activity that uniquely characterizes each has not been thoroughly settled.

With the grant, Ellis's group will analyze gene expression in breast tumor tissues that have been banked from patients diagnosed 10-15 years ago. They will test the activity of a set of 100 carefully selected genes in each tumor, and this "cold case" detective work should allow them to definitively assign genetic signatures to the established breast tumor categories.

Moreover, because the patients in the study have already undergone treatment and extensive follow-up, the researchers can compare their breast-cancer categories to each patient's treatment protocol to quickly resolve the question of which therapies work best for each cancer subtype.

"Our long-term goal is to develop a broadly applicable subtyping test for all patients with early stage breast cancer," Ellis said. "This should lead to highly effective, personalized treatments that improve outcomes for breast cancer patients."

The research project is a collaboration among the School of Medicine, the University of North Carolina, the University of Utah Huntsman Cancer Center, the University of British Columbia and the Cancer and Leukemia Group B — a network of university medical centers, community hospitals and oncology specialists.

Patients with blocked carotids needed for study that may revive old treatment

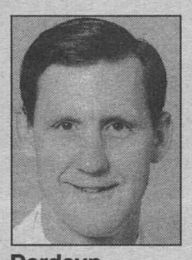
BY MICHAEL C. PURDY

Doctors may soon be turning back the clock for some patients with complete atherosclerotic blockage of the carotid arteries, blood vessels in the neck that are important sources of blood for the brain.

Surgeons once regularly treated such blockages with a procedure known as a carotid bypass, which reroutes a scalp artery to restore normal brain blood flow and pressure. Doctors stopped using the procedure in the 1980s after a large study showed it did not appear to significantly improve patient outcomes.

Motivated by recent evidence suggesting that a subgroup of patients at higher risk of stroke might benefit from the bypass, physicians at the School of Medicine and Barnes-Jewish Hospital are leading a multicenter trial to see if the surgery's risks are offset by reduction in stroke risk. The study is seeking patient volunteers.

"When a complete blockage is identified in a patient's carotid, many medical professionals think there's nothing to be done for it," said Colin Derdeyn, M.D., associate professor of radiology, of neurological surgery and of neurology. "We'd like to get the word out that there may be another option."



Derdeyn

Volunteers for the study will be screened to see if they belong to the high-risk group that may benefit from the bypass. Those who qualify will be randomly assigned to the bypass or to conventional treatment.

The renewed interest in the old operation stems from a study published in 1998 by Derdeyn and colleagues including William J. Powers, M.D., the Charlotte and Paul Hagemann Professor of Neurology and professor of neurosurgery and of radiology; and Robert L. Grubb Jr., M.D., the Herbert Lourie Professor of Neurological Surgery and professor of radiation sciences. In that study, scientists found that connecting vessels from other arteries can compensate for blockage in the carotid artery, opening wider to keep brain blood flow close to normal levels.

However, in about half of the patients studied, these natural bypasses were not enough to keep brain blood flow normal. In these patients a second compensatory process became active: Their brains increased the amount of oxygen they took from the blood.

Under normal circumstances, brain tissue only takes about 30 percent of oxygen provided to it by the bloodstream. As blood flow decreases, that rate, known as the oxygen extraction factor (OEF), can increase to as high as 80 percent. Scientists measure OEF with PET (positron emission tomography) scans.

In the 1998 study, results showed that patients with increased OEF had an extremely high risk for stroke, while those with normal OEF had a very low risk.

By restoring normal blood flow and bringing down OEF, the carotid bypass may be able to reduce high stroke risk dramatically enough to make the procedure worthwhile for some patients with carotid blockage.

The current multicenter study, the Carotid Occlusion Surgery Study (COSS), will determine if surgical complications from the bypass are low enough to justify recommending the procedure for all patients with occluded carotids and high OEF.

For more information, call Mary Catanzaro, COSS research nurse coordinator, at 362-3466.

University Events

Soweto Gospel Choir to give rare U.S. concert at Edison

BY LIAM OTTEN

The Soweto Gospel Choir — an all-star "super group" drawn from churches and congregations in and around Soweto, South Africa — will give a rare U.S. concert at 8 p.m. Feb. 11 as part of the Edison Theatre OVATIONS! Series.

Before the arrival of Western religion, traditional African music was largely rooted in song and percussion. Music ranging from praise songs to the rites of the traditional healer (secular music was largely nonexistent) typically followed a call-and-response form, with each tribal group boasting its own distinctive style.

Yet as Christian missionaries arrived in Africa in the early 19th century, mission schools became a major source of education, including musical training. Today, gospel music permeates the fabric of southern Africa, home to more than 5,000 independent Christian churches, many of which hold services in the open air.

Soweto Gospel Choir was formed in 2002 when David Mulovhedzi, now music director and choirmaster, and executive producer Beverly Byer, held auditions for the very best singers in Mulovhedzi's own Holy Jerusalem Choir, various Soweto churches and the general public.

COURTESY PHOTO

South Africa's renowned 26-member Soweto Gospel Choir will take the Edison Theatre stage Feb. 11 as part of the OVATIONS! Series.

Today the group features 26 singers, aged 16-40, as well as dancers, musicians and drummers. They perform a vibrant mix of African gospel, popular songs, folk anthems and traditional Zulu, Xhosa and Sotho spirituals.

Soweto Gospel Choir has toured extensively both in Africa and elsewhere overseas. Its many honors include the 2003 American Gospel Music Award for Best Choir of the Year; Australia's prestigious Helpmann Award for Best Contemporary Music Concert; and a South African Music Award nomination.

Last year's *Voices From Heaven*, the group's debut CD, reached the top of *Billboard's* world music chart. *Blessed*, their acclaimed follow-up, was released earlier this month.

The New York Times calls Soweto Gospel Choir "Meticulous and unstoppable … spirited and spectacular," while the *Sunday Herald* of Scotland notes that "you don't have to be a believer to be inspired."

In addition to performing, Soweto Gospel Choir works to support the local communities from which its members are drawn. In August 2003, the choir established its own charity foundation, "Nkosi's Haven/Vukani" (meaning "to arise, do something!"), which raises funds for AIDS orphans.

In November 2003, the group shared the stage with Bono, Peter Gabriel, the Eurythmics and others at Nelson Mandela's 46664 Concert in Cape Town. That event helped launch a worldwide campaign to raise awareness of the devastating impact of AIDS in Africa.

Edison Theatre programs are made possible with support from the Missouri Arts Council, a state agency; the Regional Arts Commission, St. Louis; and private contributors.

Tickets — $28; $24 for seniors and WUSTL faculty and staff; and $18 for students and children — are available at the Edison Theatre Box Office and through all MetroTix outlets.

For more information, call 935-6543 or go online to *edison theatre.wustl.edu*.

Trojan Horse • Laboratory Methods • Who Are We Really?

"University Events" lists a portion of the activities taking place Feb. 3-16 at Washington University. Visit the Web for expanded calendars for the Hilltop Campus (calendar.wustl.edu) and the School of Medicine (medschool.wustl.edu/calendars.html).

Exhibits

Celebrating 100 Years of Federal Information. Through March 31. Olin Library, Grand Staircase Lobby and Ginkgo Reading Rm. 935-6569.

Shakespeare's Much Ado About Nothing Through March 6. Olin Library Lobby. 935-5406.

Film

Friday, Feb. 3

6 & 8:30 p.m. Travel Lecture Series. *La Belle France*. Monty and Marsha Brown, folk musicians. Sponsored by Alumni & Development Programs. Cost: $5. Graham Chapel. 935-5212.

Friday, Feb. 10

3-4 p.m. Nuremberg on Film: Contemporary and Contemporaneous Perspectives. *Nuremberg: Tyranny on Trial, Investigation* (1995). Sponsored by the School of Law. Anheuser-Busch Hall, Rm. 202. 935-7988.

Lectures

Friday, Feb. 3

Noon. Cell Biology & Physiology Seminar. "Multi-photon Imaging of Infection and Immunity." Mark J. Miller, asst. prof. of pathology & immunology. Co-sponsored by the Dept. of Molecular Biology & Pharmacology. McDonnell Medical Sciences Bldg., Rm. 426. 362-7437.

12:30-4:30 p.m. St. Louis STD/HIV Prevention Training Center. "Laboratory Methods." (Continues 12:30-4:30 p.m. Feb. 10 & 17.) Cost: $75. For location and to register: 747-1522.

Monday, Feb. 6

Noon. Mallinckrodt Inst. of Radiology Lecture. Annual Hyman R. Senturia Lecture. "Imaging of the Painful Hip and Pelvis." Cheryl Petersilge, asst. clinical prof. of radiology and orthopedic surgery, Case Western Reserve U. Scarpellino Aud., 510 S. Kingshighway Blvd. 362-2866.

Noon. Molecular Biology & Pharmacology Seminar. "mPar6 Alpha Coordinates Polarization and Migration of Developing Cerebellar Granule Neurons." David J. Solecki, research assoc. in developmental neurobiology, Rockefeller U. South Bldg., Rm. 3907, Philip Needleman Library 747-3339.

Noon. Work, Families, and Public Policy Brown Bag Seminar Series. "The Consequences of Teenage Childbearing." Kevin Lang, prof. of economics, Boston U. Eliot Hall, Rm. 300. 935-4918.

5:30 p.m. Cardiac Bioelectricity & Arrhythmia Center Seminar. "PGC-1: A Physiologic Transducer Linked to Gene Regulatory Networks Controlling Cardiac Metabolism and Function." Daniel Kelly, Alumni Endowed Professor in Cardiovascular Diseases and dir., Center for Cardiovascular Research. (5 p.m. refreshments.) Whitaker Hall, Rm. 218. 935-7887.

Tuesday, Feb. 7

Noon. Molecular Microbiology & Microbial Pathogenesis Seminar Series. "Trojan Horse or Proton Force: Finding the Right Partners for Toxin Translocation." Jack R. Murphy, prof. of medicine and chief of molecular medicine, Boston Medical Center. Cori Aud., 4565 McKinley Ave. 286-2891.

Noon. Program in Physical Therapy Research Seminar. "Somatosensory Function in Cerebral Palsy." Jason Wingert, movement science program, program in physical therapy. 4444 Forest Park Blvd., Lower Lvl., Rm. B112. 286-1404.

Wednesday, Feb. 8

11 a.m. School of Law "Access to Justice" Public Interest Law Speaker Series. "Accountability, Power and Politics: Navigating the Troubled Waters of Domestic Violence Legal Advocacy." Sarah Buel, clinical prof. of law, U. of Texas. Co-sponsored by Equal Justice Works and the National Lawyers Guild Student Chapters. Anheuser-Busch Hall. 935-6419.

12:30-5 p.m. Annual Postdoc Scientific Symposium. Eric P. Newman Education Center. To register: bradleym@wustl.edu.

4 p.m. Physics Colloquium. "Enzymatic Symmetry Breaking: How Does Topoisomerase IV Distinguish Left From Right?" Keir Neuman, laboratoire de physique statistique, Ecole Normale Supérieure, Paris. (3:30 p.m. coffee, Compton Hall, Rm. 245.) Crow Hall, Rm. 204. 935-6276.

Thursday, Feb. 9

4 p.m. Chemistry Seminar. "Amorphous Solids Studied by Solid-state NMR." Marcel Utz, asst. prof. of physics, U. of Conn. McMillen Lab., Rm. 311. 935-6530.

4 p.m. Ophthalmology & Visual Sciences Seminar Series. "Novel Mechanism of Retinal Light Adaptation." Tomomi Ichinose, staff scientist in ophthalmology & visual sciences. Maternity Bldg., Rm. 725. 362-1006.

Friday, Feb. 10

Noon. Cell Biology & Physiology Seminar. "Common Structures of Amyloid Oligomer and Mechanisms of Pathogenesis in Degenerative Diseases." Charles G. Glabe, prof. of molecular biology & biochemistry, U. of Calif., Irvine. Co-sponsored by Dept. of Molecular Biology & Pharmacology. McDonnell Medical Sciences Bldg., Rm. 426. 362-4690.

Saturday, Feb. 11

8 a.m.-3:45 p.m. Hematology Oncology CME Course. "Review of the 2005 San Antonio Breast Cancer Symposium." Cost: $55. Eric P. Newman Education Center. To register: 362-6891.

Monday, Feb. 13

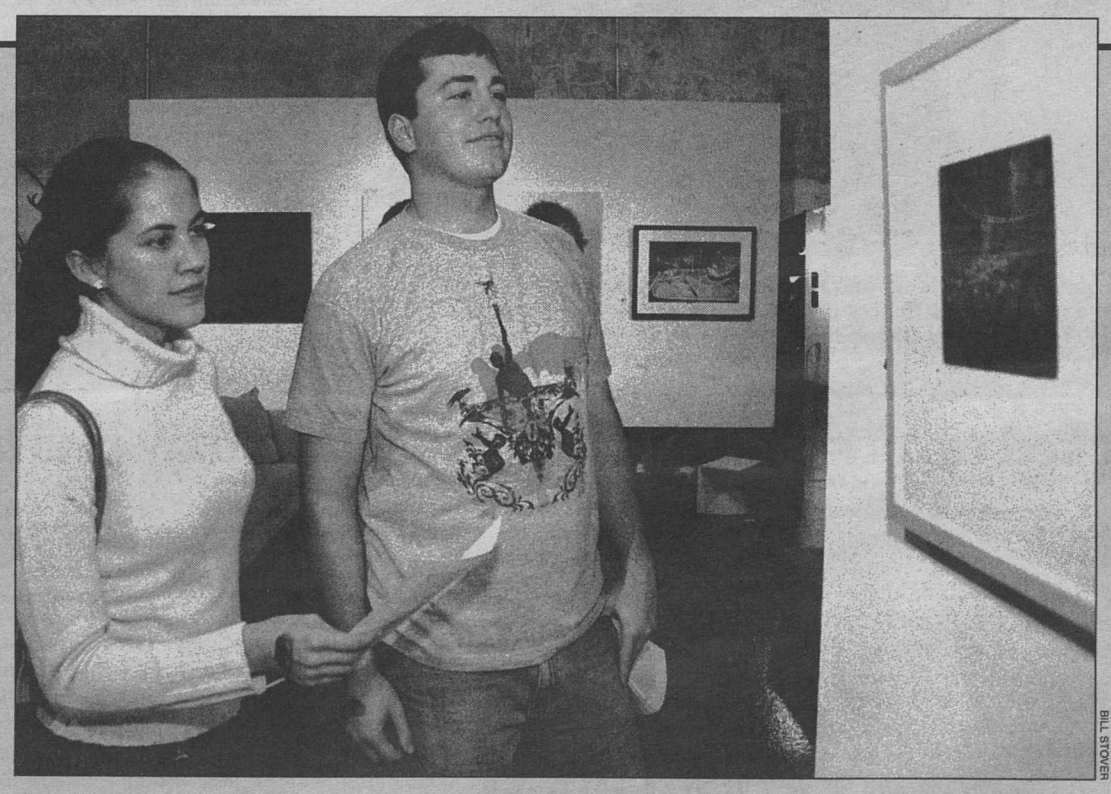
3 p.m. Neuro-oncology Research Group Seminar Series. "Genetically-engineered Mice to Understand Human Brain Tumors." David H. Gutmann, Donald O. Schnuck Family Professor of Neurology. McDonnell Medical Sciences Bldg., Rm. 928. 454-8981.

4 p.m. Religious Studies Lecture. E.G. Weltin Lecture in Early Christianity. "Who Are We Really? A Platonist's Contribution to Christianity." Margaret R. Miles, author and dean emeritus, Graduate Theological Union, Berkeley, Calif. Women's Bldg. Formal Lounge. 935-7752.

7 p.m. Sam Fox School Lecture. "Telling Tales on Canvas: Landscapes of Environmental Change." William J. Cronon, Frederick Jackson Turner and Vilas Research Professor of History, Geography and Environmental Studies, U. of Wisc. Steinberg Hall Aud. 935-9347.

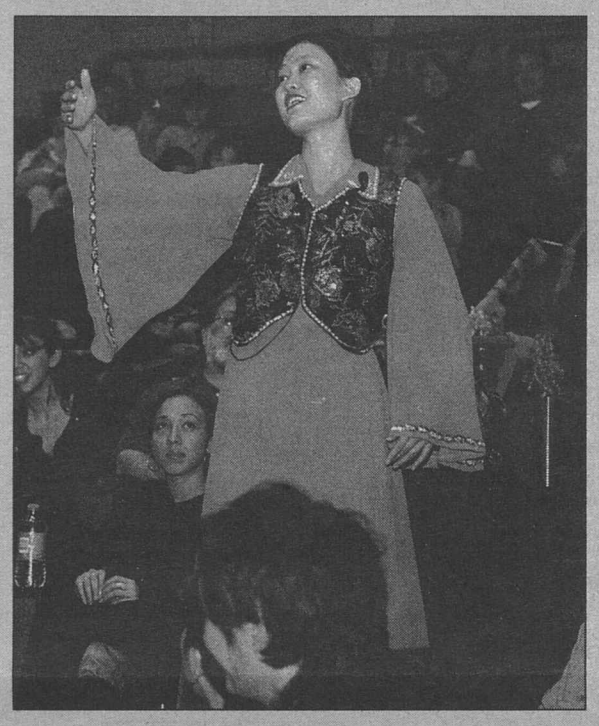
Tuesday, Feb. 14

Noon. Law School Jewish Lunch & Learn. "Examining Secular Issues and Jewish Law." Rabbi Hershey Novack, Chabad on Campus. Anheuser-Busch Hall, Rm. 307. 721-2884.



BILL STOVER

Creative outlet **Jennifer Gill, a first-year research student in the Medical Scientist Training Program, and her husband, Corey Gill, a fourth-year medical student, observe the work of Kerry Zimmerman at the opening reception of the 2nd Annual Graduate Student Visual Arts Exhibit at Baseline Gallery, 1110 Washington Ave. Zimmerman is pursuing a master of arts in teaching for secondary-school biology in the Department of Education in Arts & Sciences. Her untitled silver gelatin print is from her "Neighborhood Series" of photographs. Zimmerman says photography is her creative release from graduate schoolwork. The Gills also had a photograph, titled "Little Warriors," on display. The exhibit, titled *Offcourse*, featured the work of some 65 graduate students from numerous disciplines across the University.**



It's a celebration!

The Olin School of Business' Chinese New Year Party Jan. 27 in Simon Hall's May Auditorium included (counterclockwise, from above) a Dragon Dance, student singing, dance performances and a bojutsu demonstration. Sponsored by the Olin Greater Chinese Club, the event also featured food, a prize-drawing and other traditional Chinese, Japanese and Korean presentations. (Photos by Kevin Lowder)

Poet Brock-Broido to read from her work Feb. 9

Acclaimed poet Lucie Brock-Broido will read from her work at 8 p.m. Feb. 9 for The Writing Program Reading Series.

The reading, sponsored by The Writing Program in Arts & Sciences, is free and open to the public and will take place in Hurst Lounge, Duncker Hall, Room 207.

Brock-Broido

Brock-Broido is the author of three collections of poetry: *Trouble in Mind* (2004), *The Master Letters* (1995) and *A Hunger* (1988). Her works have appeared in major journals and magazines, including *The New Yorker*, *The Nation*, *The Paris Review*, *Epoch*, *Agni Review*, *Antioch Review*, *The New Republic*, *Ploughshares* and *Boston Review*.

Brock-Broido's numerous honors include a Guggenheim fellowship, two National Endowment for the Arts fellowships and the Witter-Bynner prize of Poetry from the Academy of American Arts & Letters, as well as the Harvard Phi Beta Kappa Teaching Award, the Harvard-Danforth Award for Distinction in Teaching and the Jerome J. Shestack Poetry Prize from American Poetry Review.

Brock-Broido earned bachelor's and master's degrees from Johns Hopkins University, as well as a master of fine arts degree from Columbia University.

She has taught at Harvard and Princeton universities and is director of poetry at Columbia.

For more information, call 935-7130.

Institute

Approach to research linked to BioMed 21

– from Page 1

project last year. Construction is under way to add 95,000 square feet to seven stories of the hospital's existing 12-story structure.

Eighty percent of the patient rooms in the improved facility will be private, giving Children's Hospital more private rooms than any other pediatric facility in the bi-state area.

Structural upgrades will also include a 50 percent expansion of the Newborn Intensive Care Unit, as well as considerable upgrades to the Pediatric Intensive Care Unit, operating rooms and therapy gym. In addition, the School of Medicine will add a seven-story physician's office tower atop the Children's Hospital visitor garage to accommodate the growing physician and faculty population.

"We have a responsibility to accommodate the growing number of patients referred to us from the bi-state area, across the region and around the world," Fetter said.

"The development of the CDI and its activities related to pediatric disease will only add to these impressive numbers."

A key component of the CDI will be its approach to research, which is linked to the medical school's BioMed 21 initiative and similar to the National Institutes of Health's "Roadmap" strategy, both of which are designed to stimulate interdisciplinary research teams and accelerate medical discovery.

Teams of WUSTL scientists from pediatrics, nanotechnology, bioengineering, genetics, computational biology and developmental biology, among others, will convene to study the genetic basis for disease. The research teams will work closely with the School of Medicine's Genome Sequencing Center to decode the diseases' genetic blueprints.

"There's no other children's hospital that has the entire genetic blueprint in its back yard," said Jonathan D. Gitlin, M.D., the Helene B. Roberson Professor of Pediatrics, professor of genetics and of pathology and immunology at the School of Medicine, and director of genetics and genomic medicine at Children's Hospital.

"There's no place else that has this kind of capacity. Nobody's doing it with the scale that we anticipate having.

"The Genome Sequencing Center is constantly coming up with new technology to decipher genetic code, and we anticipate having access to these most-advanced technologies as soon as they're available.

"We're in the middle of a scientific revolution. Let's use this explosion of knowledge and focus it on something everybody cares about — our children, our future. We have the opportunity to cure — to prevent — disease at a pace beyond most people's wildest dreams."

Wednesday, Feb. 15

8:30 a.m.-4 p.m. Center for the Application of Information Technology Two-day Workshop. "Business Finance & Budget Fundamentals for IT Professionals." (Continues 8:30 a.m.-4 p.m. Feb. 16.) Cost: $820, reduced fees available for CAIT member organizations. CAIT, 5 N. Jackson Ave. To register: 935-4444.

Noon. Midwest Regional Center of Excellence (MRCE) for Biodefense and Emerging Infectious Diseases Research Public Health Update. "Avian Influenza." Steven J. Lawrence, assoc. dir. for emergency response planning, MRCE. McDonnell Pediatric Research Bldg., 4905 Children's Place. To register: 286-0432.

7 p.m. Chabad on Campus Lecture Series. Simon Hall, Rm. 105. 721-2884.

Thursday, Feb. 16

Noon. School of Law "Access to Justice" Public Interest Law Speakers Series. "The Presumption of Liberty and the Public Interest: Medical Marijuana and Fundamental Rights." Randy Barnett, Austin B. Fletcher Professor of Law, Boston U. Anheuser-Busch Hall. 935-6419.

4 p.m. Chemistry Seminar. "Isostructural Dopants for Molecular Semiconductors: Organic Molecules in Unusual Oxidation States." Thomas P. Vaid, asst. prof. of chemistry. McMillen Lab., Rm. 311. 935-6530.

Music

Sunday, Feb. 5

4 p.m. Piano Recital. Jura Margulis, guest artist, piano. Graham Chapel. 935-4841.

On stage

Friday, Feb 3

7 p.m. Student Presentation. *Black Anthology 2006: Lest We Forget.* Cost: $10, $8 with WUSTL ID. Edison Theatre. 935-6543.

8 p.m. Performing Arts Dept. Presentation. *Ipi Zombi?* Written by Brett Bailey. Pushkar Sharma, dir. (Also 8 p.m. Feb. 4; 2 p.m. Feb. 5.) Cost: $15, $9 for students, children, seniors, WUSTL faculty & staff. Mallinckrodt Student Center, A.E. Hotchner Studio Theatre. 935-6543.

Saturday, Feb. 11

8 p.m. OVATIONS! Series. Soweto Gospel Choir. Cost: $28, $24 for seniors, WUSTL faculty & staff, $18 for students & children. Edison Theatre. 935-6543.

Sports

Friday, Feb. 10

6 p.m. Women's Basketball vs. Case Western Reserve U. Athletic Complex. 935-4705.

8 p.m. Men's Basketball vs. Case Western Reserve U. Athletic Complex. 935-4705.

Sunday, Feb. 12

1 p.m. Men's Basketball vs. Emory U. Athletic Complex. 935-4705.

3 p.m. Women's Basketball vs. Emory U. Athletic Complex. 935-4705.

And more...

Wednesday, Feb. 15

4-6 p.m. University Libraries Program, Exhibition Viewing, and Reception. "Celebrating 100 Years of Federal Information." Judith Russell, U.S. superintendent of documents; and Wayne Fields, Lynne Cooper Harvey Professor of English & dir. of American Culture Studies. Rebstock Hall, Rm. 215. 935-6569.

Record

Founded in 1905
Washington University community news

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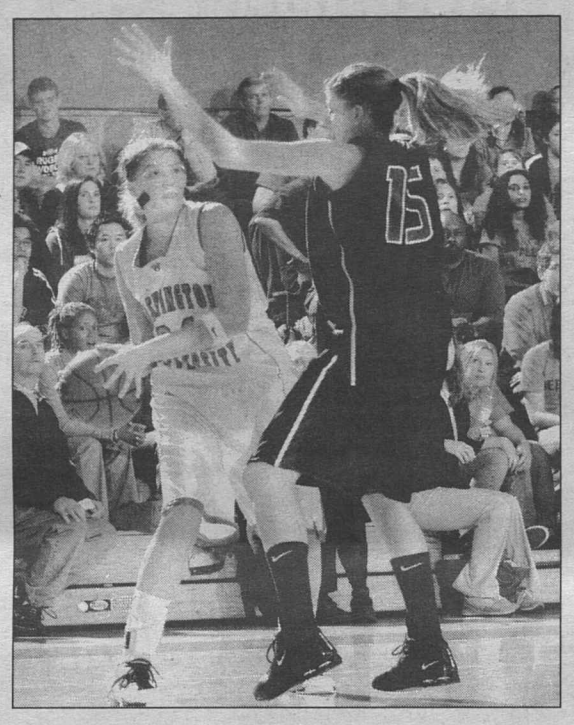
Washington University in St. Louis

Sports



Danielle Beehler — here in action earlier this season vs. New York University — picked up her seventh double-double of the season with 20 points and 11 rebounds in a win against No. 23 Rochester. Two days later, Beehler again scored 20, this time in a win against Carnegie Mellon.

MARY BUTKUS

Women's hoops wins two home UAA games

The No. 3 women's basketball team (16-2, 6-1 UAA) picked up a pair of home league wins Jan. 27 and 29 at the Field House.

WUSTL defeated No. 23 University of Rochester, 73-49, Jan. 27. The Bears put together an 18-2 run to take a 23-6 lead with eight minutes left in the opening half to take control of the game.

Senior Kelly Manning sparked the run with a 3-pointer from the left wing and a pull up at the left elbow. After junior Sarah Schell scored on her own pull-up jumper, senior Danielle Beehler followed with six straight points. Freshman Jaimie McFarlin added a jump hook in the lane, and Beehler scored two more baskets to help seal the run. During the spree, WUSTL limited UR to 1-of-16 shooting from the field.

Beehler finished with her seventh double-double of the season with 20 points and 11 rebounds.

Two days later, Washington U. rolled past Carnegie Mellon University, 74-36. Beehler finished with 20 points, while Manning added 11 points and seven rebounds. Senior Katie Benson contributed 11 points.

Men split at home, stay tied for UAA lead

The men's basketball team (13-5 overall, 5-2 UAA) posted a 1-1 record and remains in a three-way tie for first place in the UAA.

The Bears defeated the University of Rochester, 67-62, on Jan. 27 to begin the week. Senior Scott Stone finished with 21 points, five assists and five rebounds, while sophomore Troy Ruths contributed 22 points and 10 rebounds.

The Bears fell short to Carnegie Mellon University, 86-80, two days later at the Field House. The Bears rallied to cut a 14-point deficit to two before succumbing. Stone's two free throws drew WUSTL within two points (78-76), but A.J. Straub, who tallied a team-high 21 points on seven treys, answered with a 3-pointer from the right corner to seal the victory.

Ruths finished with a career-high 27 points, going 10 of 19 from the field; he also grabbed 11 rebounds. Junior Neal Griffin added a career-best 13 points, while freshman Tyler Nading contributed 11 points and seven rebounds.

Women runners claim Illinois Early Bird title

The indoor track and field teams competed at the Illinois College Early Bird Meet on Jan. 28 in Jacksonville, Ill. The Bears women won with 171 points, well ahead of second-place Greenville College (113 points). The men's squad placed third out of eight teams with 90.5 points.

Junior Delaina Martin highlighted the day, breaking the school record in the weight throw. Martin registered a throw of 16.66 meters (54-8), which is .07 meters better than the old mark. Her throw also is an NCAA provisional qualifying mark.

Senior Laura Ehret won the 800, clocking a time of 2:25.24. Additionally, sophomores Danielle Wadlington (55-meter hurdles, 9.02 finals, 8.90 prelims), Morgen Leonard-Fleckman (pole vault, 3.20m, 10-6), and freshman Erika Wade (triple jump, 10.18m, 33-4 3/4) took home individual titles.

The women's and men's 4x400-meter relay squads swept the competition. The women's team ran a time of 4:05.48, while the men finished in 3:28.43.

Senior David Skiba turned in a strong performance in the 55 hurdles prelims. He won the preliminary round in 7.90. Senior Drew Martin notched a second-place result in the shot put (13.68m, 44-10 3/4). Greenville took home the men's team title with 134.5 points.

Football players named to All-America squads

Senior wide receiver Brad Duesing and senior defensive back Joe Rizzo were named to the 2005 *Don Hansen's Football Gazette* All-America Team, as announced by the Web site.

Duesing, the 2005 UAA Offensive Player of the Year, had a school-record 75 catches for 1,136 yards and 10 touchdowns. He eclipsed 1,000 receiving yards for the fourth straight season, becoming the second player in NCAA history (Division I, II or III) to record four consecutive 1,000-yard receiving seasons.

Duesing, who ranks first in school history in pass receptions and receiving yards, finished his career ranked third in Division III history in receptions (287) and sixth in receiving yards (4,249). A second-team all-South Region selection by *Don Hansen's Football Gazette* and a third-team all-South honoree by *D3football.com*, Duesing ranked 11th in Division III in receiving yards per game (113.6) and 12th in receptions per game (7.5).

Rizzo, a second-team Associated Press Little All-America and honorable-mention all-America selection by *D3football.com*, had a team-high six interceptions and 37 tackles in 2005.

A three-time, first-team all-UAA selection, Rizzo finished his career with 15 picks, which ranks fifth on the all-time WUSTL list. Rizzo ranked fourth in Division III in passes defended and 20th in interceptions in 2005. He was also a first-team all-South Region selection by *D3football.com* and *Don Hansen's Football Gazette* in 2005.

Diabetes

– from Page 1

"Cultural Relevancy of a Diabetes Prevention Program for African American Women," recently published in the journal *Health Promotion Practice*. EWLW is a community-based, culturally specific diabetes-prevention nutrition program for African-American women.

"Study results indicate that 90 percent of the EWLW participants found the programs to be culturally relevant while 82 percent were very satisfied with the program," said Williams, who also is special assistant to the chancellor for urban and community initiatives and associate dean of academic affairs in the School of Social Work.

"One important finding from this study was the significant positive relationship between cultural relevancy and adopting the dietary change behavior of avoiding fried foods.

"Previous dietary studies have found that African-Americans eat higher levels of fried and high-fat foods than other races and ethnic groups," he continued. "After EWLW, participants also showed improvement in dietary behaviors such as decreasing fat intake and avoiding fat as a seasoning."

According to Williams, EWLW addressed dimensions of Afrocentric culture that are critical to developing a successful program for African-American communities.

"This program was developed with substantive input from the community," he said. "Participants helped shape teaching approaches and defined relevant course material. A group of women from the community also trained to become peer educators for the EWLW program in their community."

EWLW adapted food-preparation courses and recipes to reflect cultural and community tastes and conducted focus groups during and after the program for continuous feedback from the community.

"The peer educators encouraged participants to cook greens without added salt pork or ham hocks and substitute lean cuts of meat in place of traditional high-fat meats such as pig's feet and sausage," Williams said.

"Overall course emphasis focused on personal development as a means of assisting the family or community. The peer educators delivered the program content with a high level of comprehensiveness and accuracy."

Participant: 'It was more meaningful to me'

Williams' study followed 152 African-American women through EWLW. Demographics of the participants were similar to the general population of African-American women.

EWLW participants were interviewed before, upon graduation and six months after the program. Below is a sample of comments from participants:

- "Because the programs were delivered by women from my community, it was more meaningful to me."
- "When I talked about what was going on in my life, I felt that my peer educator understood what I was saying."
- "The program made me aware of health risks associated with the people in my community because of the way we eat."
- "My peer educator was familiar with the type of food that people in my community eat."
- "There were women participating in the program who had similar values and beliefs as me."
- "The program helped me to feel good about how I am as a black woman."

Williams said, "Programs for African-Americans need to assure a culturally relevant focus, targeting both individuals and groups, if they are to have any impact in the community.

Williams

"African-American disease prevalence and mortality from dietary-related diseases are disproportionately high. Although many factors may contribute to this, such as socioeconomic status, a lack of appropriate services contributes to this epidemic.

"It is important to include culturally relevant strategies based on Afrocentric principles to achieve the most effective program results."

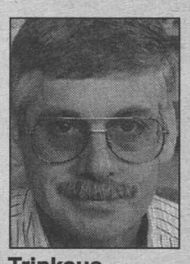
This study was supported through funding from the National Institute of Diabetes & Digestive & Kidney Diseases and the Office of Minority Health Research Coordination.

The study's co-authors were Wendy Auslander, Ph.D., professor of social work; Mary de Groot, Ph.D., assistant professor of psychology at Ohio University; Adjoa Dionne Robinson, Ph.D., research assistant at Portland State University; Cheryl Houston, Ph.D., associate professor in the Department of Human Environmental Sciences at Fontbonne University; and Debra Haire-Joshu, Ph.D., professor of community health at Saint Louis University.

Fossils

– from Page 1

University radiocarbon laboratory, Ivor Karavanic of the University of Zagreb and Fred Smith of Loyola University.



Trinkaus

The resultant ages are between 32,000-33,000 years old, and perhaps slightly older.

In 1998, the fossils had been radiocarbon dated to 28,000-29,000 years ago.

Since that time, the increasing application of direct radiocarbon dating to late Neandertal and early modern human fossils in Europe has greatly altered perceptions of the chronological relationships between Neandertals and modern humans during the time that the latter spread westward across Europe.

In particular, it has shown that many of the purportedly early modern human fossils are much more recent, while confirming the early ages of important fossil samples in Central and Eastern Europe.

This work has been combined recently with refinements in the sample purification techniques for the radiocarbon dating bone and teeth, to provide more accurate, and usually older, dates for important fossil specimens.

These new fossil ages still document a substantial chronological overlap between Neandertals and modern humans in Europe, but primarily the work highlights the currently tenuous nature of scenarios of modern human dispersals in Europe based on small numbers of direct radiocarbon dates, using various sample preparation protocols, on diagnostic human fossils in this time range.

Diversity

– from Page 1

- Continue its commitment to offer formal educational programs needed to build the capacity of disadvantaged businesses in St. Louis and the availability of a skilled, diverse work force.

"As a consultant to the University, I continue to advocate for the development of minority businesses and a diverse work force in the St. Louis region," Marks said. "As we enter the second half of this decade, it is crucial that we work together to encourage entrepreneurship and remove any barriers that will prevent further progress in hiring, retaining and promoting diverse employees.

"The task is not an easy one, but a necessary one to strengthen our region."

For more information about the Supplier Diversity Initiative, go online to *supplierdiversity.wustl.edu* or call 935-7948.

Employment

Go online to **hr.wustl.edu** (Hilltop Campus) or **medicine.wustl.edu/wumshr** (Medical Campus) to obtain complete job descriptions.

Hilltop Campus

For the most current listing of Hilltop Campus position openings and the Hilltop Campus application process, go online to hr.wustl.edu. For more information, call 935-5906 to reach the Human Resources Employment Office at West Campus.

Exec. Dir. Regional Development Progs. 050248

Islamic Studies Catalog/Subject Librarian 050260

Health Services Physician 050266

Assoc. Dir, MBA Career Advising 050278

Assoc. Dir. of Development, En. & App. Sci. 060027

Curator Modern Lit. Collection/Manuscripts 060094

Dir. of Development, School of Social Work 060096

Technology Specialist 060105

Health & Safety Technician—Clinical Specialist 060119

Administrative Asst. 060122

Department Secretary 060139

Catalog Librarian 060145

Research Asst. 060151

Funding Resources Coord. 060152

Regional Dir. of Development 060155

Database Manger, Career Resources Librarian 060161

Administrative Asst. 060165

Residential College Dir. 060168

Dir., Network Systems & Ops. 060171

Mechanic (Bargaining Unit Employee) 060173

Asst. Dir. of the Teaching Center 060174

Service Center Team Leader 060176

Prospect Identification Asst. 060178

Radiation Safety Specialist II 060179

Medical Campus

This is a partial list of positions in the School of Medicine. Employees: Contact the medical school's Office of Human Resources at 362-7196. External candidates: Submit résumés to the Office of Human Resources, 4480 Clayton Ave., Campus Box 8002, St. Louis, MO 63110, or call 362-7196.

Sr. Research Administrator 060713

Patient Billing/Services Rep. I 060715

Pre-certification Coord. 06071

Accounting/Purchasing Asst. II 060718

Research Technician I 060723

PET Research Imaging Analyst 060724

In House Physician 060725

Research Technician I 060726

Division Administrator 060727

Clinical Research Nurse Coord. 060733

Practice Office Manager 060735

Patient Billing/Services Rep. II 060736

Administrative Asst.: Special Projects 060737

RN Staff Nurse 060738

Patient Billing/Services Rep. I 060741

IBC Asst. II 060742

Sr. Research Technician 060743

Research Patient Coord./Professional 060744

Systems Manager 060746

IBC Asst. 060754

Support Services Attendant II 060735

User Support Analyst 060756

Manager, User Support 060767

IBC Asst. II 060768

Accounting Manager 069999

Notables

Faculty receive promotions, tenure

At recent Board of Trustees meetings, the following faculty members were granted tenure, promoted with tenure, appointed with tenure or granted a track change with tenure effective July 1, 2005, unless otherwise noted.

Promotion with tenure

Jan P. Amend, to associate professor of Earth and planetary sciences in Arts & Sciences

Pamela Barmash, to associate professor of Hebrew bible and biblical Hebrew

John C. Bricout, to associate professor of social work in the George Warren Brown School of Social Work

Kathleen K. Bucholz, to professor of psychiatry in the School of Medicine effective Dec. 2, 2005

Jonathan M. Chase, to associate professor of biology in Arts & Sciences

Da-Ren Chen, to associate professor of mechanical engineering in the School of Engineering and Applied Sciences

Shiming Chen, to associate professor of ophthalmology and visual sciences and associate professor of molecular biology and pharmacology, both in the School of Medicine, effective Oct. 7, 2005

John C. Clohisy, to associate professor of orthopaedic surgery in the School of Medicine, effective Oct. 7, 2005

Gregory C. DeAngelis, to associate professor of neurobiology in the School of Medicine, effective March 4, 2005

Aaron DiAntonio, to associate professor of molecular biology and pharmacology, effective Oct. 7, 2005

Tonya E. Edmond, to associate professor of social work in the George Warrren Brown School of Social Work

Richard J. Krueger, to associate professor of Art

David C. Linehan, to associate professor of surgery (general surgery) in the School of Medicine, effective March 4, 2005

Richard A. Loomis, to associate professor of chemistry in Arts & Sciences

Elaine R. Mardis, to associate professor of genetics and associate professor of molecular microbiology, both in the School of Medicine, effective Oct. 7, 2005

Robert C. McKinstry III, to associate professor of radiology in the School of Medicine, effective Oct. 7, 2005

Howard McLeod, to professor of medicine and professor of molecular biology and pharmacology and professor of genetics

Steven J. Mennerick, to associate professor of psychiatry and neurobiology, effective Oct. 7, 2005

Arye Nehorai, to professor of electrical and systems engineering in the School of Engineering and Applied Sciences, effective Jan. 1.

Tej K. Pandita, to associate professor of radiation oncology, effective March 4, 2005

Troy A. Parades, to professor of law

Wolfram M. Schmidgen, to associate professor of English in Arts & Sciences,

Mark A. Watson, to associate professor of pathology and immunology

Pamela K. Woodard, to associate professor of radiology in the School of Medicine, effective March 4, 2005

Granting of tenure

Samuel I. Achilefu, as associate professor of radiology in the School of Medicine, effective March 4, 2005

J. Stuart Bunderson, as associate professor of organizational behavior

Kurt K. Dirks, as associate professor of organizational behavior in the School of Medicine

Appointment with tenure

Richard M. Frankel, as associate professor of accounting in the Olin School of Business, effective Oct. 7, 2005

Armando R. Gomes, as associate professor of finance in the Olin School of Business

Architecture graduate school ties for 10th ranking

Washington University's Graduate School of Architecture & Urban Design, part of the Sam Fox School of Design & Visual Arts, has tied for 10th in the nation, according to *Design Intelligence*, a monthly newsletter published by the Design Futures Council.

WUSTL is tied with the University of Illinois.

The seventh-annual survey ranked 117 programs accredited by the National Architectural Accrediting Board. More than 400 directors of design, managing principals and human resource directors at leading U.S. architecture firms were polled on which programs had produced the most professional, best-prepared graduates over the last five years.

WUSTL was ranked 13th in 2005.

"We are very pleased by this recognition, which comes from architectural professionals working around the country," said Peter MacKeith, associate dean of the College of Architecture and Graduate School of Architecture & Urban Design. "It represents the outstanding accomplishment of our students and faculty and reflects the vigor of the school's teaching and learning mission."

The Design Futures Council is a global network of professionals involved with the design community. Its mission is to explore trends, changes and new opportunities in design, architecture and building technology.

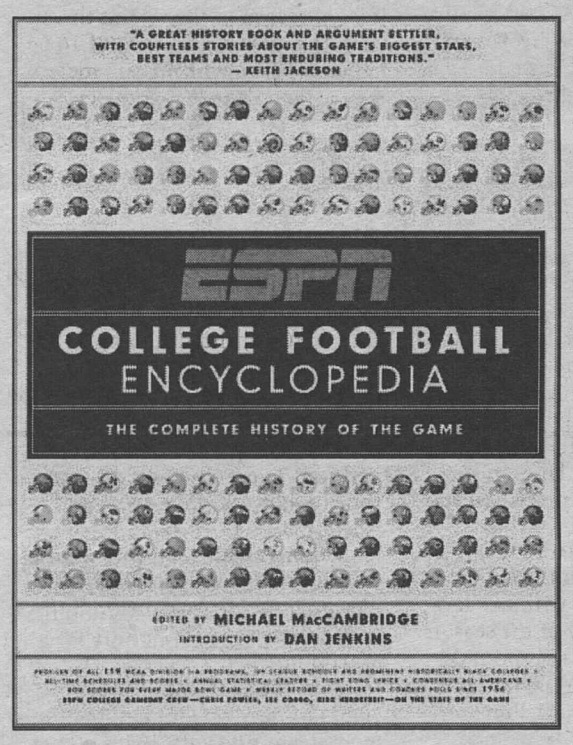
The complete rankings are available at *di.net/archschools/schools.html.*

Campus Authors

Michael MacCambridge, adjunct professor of journalism, University College in Arts & Sciences

ESPN College Football Encyclopedia: The Complete History of the Game

ESPN Books (2005)



On the heels of a highly acclaimed book on the NFL comes another football tome from Michael MacCambridge, this one about the level just before the pros.

In an era of stat freaks, overanalysis and just plain numbers-crunching, the literary world — and sports world — was ready for a book like the *ESPN College Football Encyclopedia.*

MacCambridge, adjunct professor of journalism at University College in Arts & Sciences, took three years' worth of exhaustive research by several football experts and edited it into an easy-to-read format.

"I sent a proposal to ESPN back in the summer of 1999, even before I started work on my own book, *America's Game*," MacCambridge said. "I had just completed editing *ESPN SportsCentury*, a coffee-table book, so there was interest in doing another book.

"This was the big one that had never been done before, and if it made sense for anyone to do it, it was the people at ESPN."

The features of the book are endless — and are a fan's Christmas, birthday and spring break all rolled into one. They include:

• Capsule histories for each of the NCAA Division I-A programs, the Ivy League schools, and the historically African-American colleges;

• Year-by-year schedules and scores for each school;

• Statistical leaders from each school;

• Fight-song lyrics;

• Box scores for every bowl game ever played;

• Weekly AP and UPI polls dating back to 1936;

• A four-color insert illustrating the evolution of each school's helmet design;

• Essays by the game's top journalists, including Dan Jenkins, Beano Cook, Chris Fowler and more; and

• A lively round-table discussion on the state of the game with the popular *ESPN GameDay* broadcast team (Fowler, Lee Corso and Kirk Herbstreit).

"We had 25 different writers on the project, and assembled stats not only through the NCAA but also each of the 119 different Division I-A schools," MacCambridge said. "We began work in earnest early in 2001, when the project was finally given the go-ahead.

"And we're still working on it. I just finished writing a piece that will run alongside the updated version that goes on the Web site, to include the just-completed 2005 season."

Almost every school in Division I-A gets 6-10 pages of text, citing its best player, coach and team; its biggest upset and heartbreak; its annual leaders, All-Americans, national titles and game scores.

The annual reviews feature standings, bowl results, All-Americans, the top 10 Heisman Trophy candidates, statistical leaders and weekly poll results.

Other essays found in the book include pieces on the state of the game, coaches, recruiting, integration, college football at the movies, the polls and computer rankings, the eternal playoff debate and more.

— Andy Clendennen

For the Record

Of note

Jacob Schaefer, Ph.D., the Charles Allen Thomas Professor of chemistry in Arts & Sciences, has received a one-year, $420,000 grant from the National Science Foundation for research titled "Solid-State NMR Analysis of Chain Packing and Dynamics in Polycarbonates." …

Karen L. Wooley, Ph.D., professor of chemistry in Arts & Sciences, has received a one-year, $212,000 grant from the National Science Foundation for research titled "Synthetic Methodology Development, Utilizing the Physical and Chemical Manipulation of Discrete Nanoscale Objects." …

Luis H. Zayas, Ph.D., the Shanti K. Khinduka Distinguished Professor of Social Work, has received a five-year, $1,733,337 grant from the National Institute of Mental Health for research titled "Sociocultural Processes in Latina Suicide Attempts." …

Kenneth Harrington, director of the Skandalaris Entrepreneurship Program, has received a three-year, $675,000 grant from the Ewing Marion Kauffman Foundation in order "To Support Interdisciplinary Research in Entrepreneurship Among Faculty in the Schools of Law, Business, and Arts & Sciences at Washington University." …

Li Mei Chen, Ph.D., assistant professor in social work, has received a one-year, $56,279 grant from the John A. Hartford Geriatric Social Work Faculty Scholars Program for research titled "'Aging in Place' in Assisted Living Facilities: Exploring Its Definition, Formation, Implementation, and Accountability in State Policies." …

Katharina Lodders, Ph.D., research associate professor of earth and planetary sciences in Arts & Sciences, has received a three-year, $143,675 grant from the National Science Foundation for research titled "Atmospheric Chemistry in Brown Dwarfs and Low Mass Stars." …

Michal Grinstein-Weiss, Ph.D., postdoctoral fellow in the Center for Social Development in social work, has received a one-year, $3,000 grant from the Fahs-Beck Fund for Research and Experimentation for research titled "IDAs for Housing Policy: Analysis of Saving Outcomes & Racial Differences." …

Elisabeth A. Hildebrand, Ph.D., research associate and adjunct instructor of anthropology in Arts & Sciences, has received a two-year, $25,000 grant from the Wenner-Gren Foundation for Anthropological Research to administer research in Ethiopia. …

David Rowntree, special media collections archivist in Special Collections, has received a one-year, $108,000 grant from the National Archives and Records Administration titled "Eyes on the Prize Preservation Project." …

Ryan Balot, Ph.D., associate professor of classics in Arts & Sciences, has received a sixteen-month, $95,275 grant from the Teagle Foundation for research titled "Re-Thinking the Pedagogy of Ethnicity." …

Raymond Arvidson, Ph.D., chair and the James S. McDonnell Distinguished University Professor of earth and planetary sciences in Arts & Sciences, has received a five-year, $4,680,500 grant from NASA for research titled "Planetary Systems Geosciences Node." …

Sara Aton, graduate fellow of biology in Arts & Sciences, has received a two-year, $56,222 grant from the National Institute of Mental Health for research titled "Roles of GABA and VIP in the Suprachiasmatic Nucleus." …

Stefan R. Falke, Ph.D., research assistant professor of environmental engineering, has received a five-year, $1,524,649 grant from NASA for research titled "Application of ESE Data and Tools to Particulate Air Quality Management." …

Jonathan B. Losos, Ph.D., professor of biology in Arts & Sciences, has received a four-year, $240,000 grant from the National Science Foundation for research titled "Collaborative Research: Species Diversity and Abundance in Insular Systems." …

Shelly Sakiyama-Elbert, Ph.D., assistant professor of biomedical engineering, has received a four-year, $1,132,200 grant from the National Institute of Neurological Disorders and Stroke for research titled "Fibrin-Based Scaffolds for Spinal Cord Injury." …

Timothy E. Hullar, M.D., assistant professor of otolaryngology, has received a five-year, $886,317 grant from the National Institute on Deafness and Other Communication Disorders for research titled "Function of Vestibular-Nerve Afferent Types." …

Mario Schootman, Ph.D., assistant professor of medicine, has received a three-year, $808,175 grant from the National Cancer Institute for research titled "Geographic Variation of Breast Cancer Survival."

Washington People

No journey too large or too small

Sheila Stewart enjoys treks through microscopes and mountains

By Michael C. Purdy

Whether she's following a tantalizing thread of scientific evidence in the laboratory or trekking to remote corners of the world with her husband, Jake, Sheila Stewart loves epic journeys.

Stewart, Ph.D., assistant professor of cell biology and physiology, speaks with equal enthusiasm of her studies of molecular structures on the ends of DNA and of the time she had to confront a "bird spider whose body was bigger than the size of my head."

The former effort may lay the groundwork for opening up new fronts in the war on cancer; the latter proved to be unavoidable as she and her husband hiked to what they had heard would be excellent scuba diving territory off the north end of the Japanese island of Okinawa.

"Jake and I will go to any length to get to a cool dive spot, and while he was stationed at Okinawa, we had heard that best scuba diving was only accessible on foot through the northern jungle," says Stewart, 37.

After a mile-and-a-half of hauling two tanks and all their dive gear through the steamy tropical landscape, Stewart heard the ocean in the distance.

"I just happened to look up, and above my head and the only path to the ocean through the jungle was a bird spider," she remembers. "And this guy was on his web hovering about 10 feet over where I had to walk, and that made me hesitate, but only for a moment."

She went through and enjoyed an amazing dive. Other travel highlights have included a trip to Peru to visit the ruins of Machu Picchu; seeing the sights in Vietnam; bungee jumping in Costa Rica; and hiking to the top of the world's tallest freestanding mountain, Mount Kilimanjaro in Tanzania, Africa.

"They begin the final ascent at midnight so you reach the peak of Kilimanjaro right at sunrise," Stewart recalls. "That was the most amazing sunrise I've ever seen in my life."

Despite the remarkable travel history she's already accumulated, Stewart notes, she still has a lot of journeying to do to catch up to her father-in-law, Zeke, a newspaper editor who has served as a foreign correspondent and as the editor of the travel section.

"Zeke's been to many, many exotic places, and it seems like no matter where we go he always has some useful advice to offer us," Stewart says.

Life in the lab has biological concepts and conundrums as its landmarks, but they're still just as fascinating to Stewart, who often speaks of her joy in being able to "follow the science" wherever it leads.

"It's not that what I discover today is going to save someone's life tomorrow," Stewart says. "But I have positioned my lab in such a way that I can both get into the nuts and bolts of really understanding how something works and know that the questions we answer will one day have an impact on human health."

Stewart came to Washington University in 2003 and quickly won notice by becoming the University's first faculty member to win a Kimmel Scholar Award. The awards are presented annually to a handful of the nation's most promising young cancer researchers by the Sidney Kimmel Foundation for Cancer Research.

"The Kimmel Scholar award is a very prestigious award, and Sheila has been a tremendous addition to the department and the University," says Helen Piwnica-Worms, Ph.D., professor of cell biology and physiology. "She has so much energy and passion for her science and is a wonderful mentor to her students."

As a graduate student at the University of California, Los Angeles, Stewart studied HIV and other retroviruses. But she became interested in the extraordinary properties of cancer cells during her postdoctoral studies at the Whitehead Institute for Biomedical Research in Massachusetts. Much of her research is now focused on how cancer cells beat a built-in limitation on the number of times most cells can reproduce. That limitation is linked to cap-like structures on the ends of DNA known as telomeres.

"As the chromosomes are replicated when a cell reproduces, the telomere gets a little teeny bit shorter," Stewart explains. "And eventually it gets a little too short, and that's when the cell is forced to stop reproducing. We call such cells senescent cells."

Scientists think this limitation may be a built-in anti-tumor mechanism: if an incipient cancer cell tries to reproduce too quickly and too often, it depletes the telomeres and is forced to stop dividing. However, an estimated 90 percent of all cancer cells activate telomerase, a DNA repair enzyme that helps maintain the telomeres during DNA replication. Because their telomeres are regularly repaired, these cancer cells can continue to reproduce indefinitely.

Stewart's lab has been working to better understand telomere structure, how telomerase functions, and how telomere dissolution shuts down cell replication. She hopes to provide the information necessary to develop new cancer treatments that inhibit the effects of telomerase.

"Cancer is the result of numerous mutations, and to effectively treat it you want to simultaneously attack it on as many fronts as possible," Stewart explains. "Inhibiting telomerase probably won't ever be used by itself as a tumor therapy, but it does have the potential to augment the effects of more traditional treatments such as chemotherapy."

Senescent cells have also recently begun showing up in another potential new front in the war on cancer. Cancer specialists have begun to theorize that cells halfway between normal and cancerous may get a final boost toward becoming cancers from their interactions with nearby normal cells. Early evidence suggests that senescent cells may be among the normal cells whose interactions with precancerous cells supply that final boost toward cancer.

"We're going to be looking into whether we can prove this and identify the key interactions between senescent cells and precancerous cells," Stewart says.

Stewart doesn't converse so much as she verbally spars — she loves to say daring and provocative things, but always with good-natured glimmers of amusement clearly visible on her face. She begins a conversation about her research program, for example, by asking, "So, you want to hear about how we're trying take over the world?"

Heather True-Krob, Ph.D., assistant professor of cell biology and physiology, came to the department the same year as Stewart. She jokes that her colleague and friend's energy levels are so high she "would rather go to the gym than sleep."

"Until you get to know her and realize that she is very focused, what stands out the most about Sheila is that she has so much energy," True-Krob says. "One of her greatest qualities, though, is that she is a very generous person who would never say no to a friend or acquaintance needing help."

Piwnica-Worms notes that Stewart is a "fabulous cook." As they traveled the globe, Stewart and her husband, a former Marine Harrier pilot who now helps design flight training systems for Boeing, became interested in cooking world cuisine when they returned home.

Under the heading "fun stuff," Stewart's Web site includes recipes for the Indian dishes aloo gobi, sag paneer and chole.

"Cooking's a nice break from the precision of the lab," Stewart says. "In the lab, every measurement has to be exact, but in the kitchen you have a little more license to say, throw in an extra tablespoon or two of a favorite ingredient."

Favorite cuisines at the Stewart household include sushi, Indian food, seafood and a Spanish rice dish called paella. Stewart boasts that they recently purchased a "fire ring," a large grill-like device with two independently controllable ring-shaped burners. The device is seen as an essential cooking tool by paella connoisseurs.

Stewart has her sights set on the southern tip of South America as the next exotic vacation destination but may have to postpone that for a bit because she is expecting her first child in May.

Noting that her pregnancy has kept her from scuba diving, Stewart jokes, "As soon as our baby can swim, I think we're going to get it a scuba diving regulator."

ROBERT BOSTON

Sheila Stewart, Ph.D., and Lionel Guittat, Ph.D., a postdoctoral student in her laboratory, discuss a readout of protein expression in cancer cells.

"Until you get to know her and realize that she is very focused, what stands out the most about Sheila is that she has so much energy. One of her greatest qualities, though, is that she is a very generous person who would never say no to a friend or acquaintance needing help."

HEATHER TRUE-KROB

Sheila Stewart

Title: Assistant professor of cell biology and physiology

Years at University: Three

Hobbies: Scuba diving, traveling, cooking

COURTESY PHOTO

Sheila Stewart and her husband, Jake, atop the summit of Mount Kilimanjaro in Tanzania, Africa.